

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

**Claims 1-10 (Canceled)**

**Claim 11 (Previously presented):** A mobile station wireless apparatus equipped with a waveform equalizer capable of removing an adverse influence caused by frequency selective fading, said waveform equalizer comprising:

an equalizing filter unit including a delay circuit with a tap;

a discriminator which decodes an output signal of said equalizing filter unit;

tap arrangement control means which controls a tap arrangement of said equalizing filter unit;

a tap coefficient monitoring unit which monitors a tap coefficient of said equalizing filter unit; and

detector means which detects a moving speed of the mobile station wireless apparatus,

wherein when the moving speed is higher than a preselected threshold value, the tap arrangement of said equalizing filter unit is changed so as to restart a starting step of the equalizing filter unit for equalizing a reception signal, depending upon a change state of the tap coefficient used while the reception signal is equalized.

**Claim 12 (Previously presented):** A mobile station wireless apparatus equipped with a waveform equalizer capable of removing an adverse influence caused by frequency selective fading, said waveform equalizer comprising:

an equalizing filter unit including a delay circuit with a tap;

a discriminator which decodes an output. signal of said equalizing filter unit;

tap arrangement control means which controls a tap arrangement of said equalizing filter unit;

a tap coefficient monitoring unit which monitors a tap coefficient of said equalizing filter unit; and

detector means which detects a moving speed of the mobile station wireless apparatus, wherein when the moving speed is higher than a preselected threshold value, the tap arrangement of said equalizing filter unit is changed so as to restart reception signal equalizing steps from a preselected step prior to the present step thereof while said reception signal is equalized, depending upon a change state of the tap coefficient during the equalization of said reception signal.

**Claim 13 (Previously presented):** A mobile station wireless apparatus equipped with a waveform equalizer capable of removing an adverse influence caused by frequency selective fading, said waveform equalizer comprising:

an equalizing filter unit including a delay circuit with a tap;

a discriminator which decodes an output signal of said equalizing filter unit;

tap arrangement control means which controls a tap arrangement of said equalizing filter unit;

a tap coefficient monitoring unit which monitors a tap coefficient of said equalizing filter unit; and

detector means which detects a moving speed of the mobile station wireless apparatus, wherein when the moving speed is higher than a preselected threshold value, an operation is performed in which the tap arrangement of said equalizing filter unit is changed so as to restart reception signal equalizing steps from a preselected step prior to the present step thereof while said reception signal is equalized, depending upon a change state of the tap coefficient during the equalization of said reception signal; and further so as to repeatedly perform said operation,

depending upon a change condition of the tap coefficient while restarting the equalization of said reception signal.

**Claims 14-19 (Canceled)**

**Claim 20 (Previously presented):** A mobile communication system having a base station and a mobile station, in which said mobile station is equipped with a waveform equalizer capable of removing an adverse influence caused by frequency selective fading, said waveform equalizer comprising:

an equalizing filter unit including a delay circuit with a tap;

a discriminator which decodes an output signal of said equalizing filter unit;

tap arrangement control means which controls a tap arrangement of said equalizing filter unit;

a tap coefficient monitoring unit which monitors a tap coefficient of said equalizing filter unit; and

detector means which detects a moving speed of the mobile station wireless apparatus,

wherein when the moving speed is higher than a preselected threshold value, the tap arrangement of said equalizing filter unit is changed so as to restart a starting step of the equalizing filter unit for equalizing a reception signal, depending upon a change state of the tap coefficient used while the reception signal is equalized.

**Claim 21 (Original):** A mobile communication system having a base station and a mobile station, in which said mobile station is equipped with a waveform equalizer capable of removing an adverse influence caused by frequency selective fading, said waveform equalizer comprising:

an equalizing filter unit including a delay circuit with a tap;

a discriminator which decodes an output signal of said equalizing filter unit;

tap arrangement control means which controls a tap arrangement of said equalizing filter unit;

a tap coefficient monitoring unit which monitors a tap coefficient of said equalizing filter unit; and

detector means which detects a moving speed of the mobile station wireless apparatus, wherein when the moving speed is higher than a preselected threshold value, the tap arrangement of said equalizing filter unit is changed so as to restart reception signal equalizing steps from a preselected step prior to the present step thereof while said reception signal is equalized, depending upon a change state of the tap coefficient during the equalization of said reception signal.

**Claim 22 (Previously presented):** A mobile communication system having a base station and a mobile station, in which said mobile station is equipped with a waveform equalizer capable of removing an adverse influence caused by frequency selective fading, said waveform equalizer comprising:

an equalizing filter unit including a delay circuit with a tap;

a discriminator which decodes an output signal of said equalizing filter unit;

tap arrangement control means which controls a tap arrangement of said equalizing filter unit;

a tap coefficient monitoring unit which monitors a tap coefficient of said equalizing filter unit; and

detector means which detects a moving speed of the mobile station wireless apparatus, wherein when the moving speed is higher than a preselected threshold value, an operation is performed in which the tap arrangement of said equalizing filter unit is changed so as to restart reception signal equalizing steps from a preselected step prior to the present step thereof while said reception signal is equalized, depending upon a change state of the tap coefficient during the

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equalization of said reception signal; and further so as to repeatedly perform said operation, depending upon a change condition of the tap coefficient while restarting the equalization of said reception signal.

**Claim 23 – 26 (Canceled)**